

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

09/963,827D

Source:

JFW/b

Date Processed by STIC:

1/19/07

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/19/2007

PATENT APPLICATION: US/09/963,827D

TIME: 16:30:17

Input Set : A:\10815-105005 Sequence.txt

Output Set: N:\CRF4\01192007\I963827D.raw

3 <110> APPLICANT: Sullenger, Bruce  
 4 Rusconi, Christopher  
 6 <120> TITLE OF INVENTION: RNA Aptamers and Methods for Identifying Same  
 8 <130> FILE REFERENCE: 10815-105005 (Reg001)  
 10 <140> CURRENT APPLICATION NUMBER: US 09/963,827D  
 11 <141> CURRENT FILING DATE: 2001-09-26  
 13 <150> PRIOR APPLICATION NUMBER: US 60/235,654  
 14 <151> PRIOR FILING DATE: 2000-09-26  
 16 <160> NUMBER OF SEQ ID NOS: 243  
 18 <170> SOFTWARE: PatentIn version 3.3  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 96  
 22 <212> TYPE: RNA  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: RNA aptamer  
 28 <400> SEQUENCE: 1  
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 31 agcauaaccc agaggucgau aguacuggau cccccc 96  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 96  
 36 <212> TYPE: RNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: RNA aptamer  
 42 <400> SEQUENCE: 2  
 43 gggagagagg aagaggggaug ggcuaauauac acgcugguga ucccaucuca auugaaacaa 60  
 45 cacauaaccc agaggucgau aguacuggau cccccc 96  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 96  
 50 <212> TYPE: RNA  
 51 <213> ORGANISM: Artificial Sequence  
 53 <220> FEATURE:  
 54 <223> OTHER INFORMATION: RNA aptamer  
 56 <400> SEQUENCE: 3  
 57 gggagagagg aagaggggaug gggacuauac cgcguaauggc ugccucccca uuccggaacg 60  
 59 cucauaaccc agaggucgau aguacuggau cccccc 96  
 62 <210> SEQ ID NO: 4  
 63 <211> LENGTH: 95  
 64 <212> TYPE: RNA  
 65 <213> ORGANISM: Artificial Sequence  
 67 <220> FEATURE:  
 68 <223> OTHER INFORMATION: RNA aptamer

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70 <400> SEQUENCE: 4
71 gggagagagg aagaggggaug ggcacuaauac gcaucuugcu gccugcccgcc gagucaaauu      60
73 gcauaaccca gagguccgaua guacuggauc ccccc      95
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 96
78 <212> TYPE: RNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: RNA aptamer
84 <400> SEQUENCE: 5
85 gggagagagg aagaggggaug ggccuaccag uucguggcua gcgugacgua ccacccaggg      60
87 accauaaccc agaggucgaua aguacuggau ccccc      96
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 96
92 <212> TYPE: RNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: RNA aptamer
98 <400> SEQUENCE: 6
99 gggagagagg aagaggggaug ggcgaauaacc aacaugguga ucccauucan cauacccuac      60
101 aacauaaccc agaggucgaua aguacuggau ccccc      96
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 96
106 <212> TYPE: RNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: RNA aptamer
112 <400> SEQUENCE: 7
113 gggagagagg aagaggggaug gggccaccua cuauaccggu caucgugcau aggucgcugc      60
115 cacauaaccc agaggucgaua aguacuggau ccccc      96
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 95
120 <212> TYPE: RNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: RNA aptamer
126 <400> SEQUENCE: 8
127 gggagagagg aagaggggaug ggucucacac ccgaagaugg ccaaagaggg agaugaguuu      60
129 ccauaaccca gagguccgaua guacuggauc ccccc      95
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 96
134 <212> TYPE: RNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: RNA aptamer
140 <400> SEQUENCE: 9
141 gggagagagg aagaggggaug ggacuaauuu cggaaucugg acucccaccu gccugcccca      60
143 gacauaaccc agaggucgaua aguacuggau ccccc      96
146 <210> SEQ ID NO: 10

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Input Set : A:\10815-105005 Sequence.txt

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149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: RNA aptamer
154 <400> SEQUENCE: 10
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157 agcauaaccc agaggucgau aguacuggau cccccc                                96
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 96
162 <212> TYPE: RNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Oligonucleotide
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: (1)..(96)
172 <223> OTHER INFORMATION: "n" = g, c, u or a
174 <400> SEQUENCE: 11
W--> 175 gggagagagg aagaggggaug ggcucaucac aggcgaagug aacaacacua ccgncnaguu      60
177 accauaaccc agaggucgau aguacuggau cccccc                                96
180 <210> SEQ ID NO: 12
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182 <212> TYPE: RNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: RNA aptamer
188 <400> SEQUENCE: 12
189 gggagagagg aagaggggaug gggacuauac gugaacgacu gcauccacuu ccccgccaug      60
191 gcauaaccca gaggucgaua guacuggauc ccccc                                95
194 <210> SEQ ID NO: 13
195 <211> LENGTH: 96
196 <212> TYPE: RNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: RNA aptamer
202 <400> SEQUENCE: 13
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205 uccaauaccc agaggucgau aguacuggau cccccc                                96
208 <210> SEQ ID NO: 14
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210 <212> TYPE: RNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: RNA aptamer
216 <400> SEQUENCE: 14
217 gggagagagg aagaggggaug ggaccuacg cacauugcug aaucacccuc aaauagcaccu      60
219 accauaaccc agaggucgau aguacuggau cccccc                                96
222 <210> SEQ ID NO: 15

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Input Set : A:\10815-105005 Sequence.txt

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223 <211> LENGTH: 96
224 <212> TYPE: RNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: RNA aptamer
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (54)..(54)
234 <223> OTHER INFORMATION: "n" = c or u
236 <400> SEQUENCE: 15
W--> 237 gggagagagg aagaggggaug ggccauaacc acuuugguga acccaccag cucnugugau      60
239 ugcauaaccc agaggucgau aguacuggau cccccc      96
242 <210> SEQ ID NO: 16
243 <211> LENGTH: 96
244 <212> TYPE: RNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: RNA aptamer
250 <400> SEQUENCE: 16
251 gggagagagg aagaggggaug ggaccauaac gacuacucgu gaaucccacc aucagcgcac      60
253 aacauaaccc agaggucgau aguacuggau cccccc      96
256 <210> SEQ ID NO: 17
257 <211> LENGTH: 96
258 <212> TYPE: RNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: RNA aptamer
264 <400> SEQUENCE: 17
265 gggagagagg aagaggggaug gggacuauac cggcaaucgu gcauccccug gaccuaacaa      60
267 uacauaaccc agaggucgau aguacuggau cccccc      96
270 <210> SEQ ID NO: 18
271 <211> LENGTH: 96
272 <212> TYPE: RNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: RNA aptamer
278 <400> SEQUENCE: 18
279 gggagagagg aagaggggaug ggaacaccau uaugcucgg ccagguaacc ccggcgcaua      60
281 cucauaaccc agaggucgau aguacuggau cccccc      96
284 <210> SEQ ID NO: 19
285 <211> LENGTH: 94
286 <212> TYPE: RNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: RNA aptamer
292 <400> SEQUENCE: 19
293 gggagagagg aagaggggaug gggaccauaa cucuaacggg ugaaucccg c aucucgacaa      60
295 uacauaaccc agaggucgau aguacuggau cccc      94
298 <210> SEQ ID NO: 20

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## RAW SEQUENCE LISTING

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Input Set : A:\10815-105005 Sequence.txt

Output Set: N:\CRF4\01192007\I963827D.raw

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299 <211> LENGTH: 95
300 <212> TYPE: RNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: RNA aptamer
306 <400> SEQUENCE: 20
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309 acauaaccce gagguccgau guacuggauc ccccc                                95
312 <210> SEQ ID NO: 21
313 <211> LENGTH: 96
314 <212> TYPE: RNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: RNA aptamer
320 <400> SEQUENCE: 21
321 gggagagagg aagaggggaug gguaauaacu guauggugaa cccacccaaa cucccauggc      60
323 uacauaaccce agaggucgau aguacuggau ccccc                                96
326 <210> SEQ ID NO: 22
327 <211> LENGTH: 95
328 <212> TYPE: RNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: RNA aptamer
334 <400> SEQUENCE: 22
335 gggagagagg aagaggggaug ggcgccauac gcacauugcu gcaucgccuu cccguaagaa      60
337 ccuaaaccce gagguccgau guacuggauc ccccc                                95
340 <210> SEQ ID NO: 23
341 <211> LENGTH: 96
342 <212> TYPE: RNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: RNA aptamer
348 <400> SEQUENCE: 23
349 gggagagagg aagaggggaug ggaaaauagc cccagcgaga uaauacuugg cccccguacc      60
351 accauaaccce agaggucgau aguacuggau ccccc                                96
354 <210> SEQ ID NO: 24
355 <211> LENGTH: 97
356 <212> TYPE: RNA
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: RNA aptamer
362 <400> SEQUENCE: 24
363 gggagagagg aagaggggaug ggccagaagg aacuaaacac cugaaccccc caucgcgaga      60
365 gaccuaaacc cagaggucga uaguacugga ucccccc                                97
368 <210> SEQ ID NO: 25
369 <211> LENGTH: 92
370 <212> TYPE: RNA
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/963,827D

DATE: 01/19/2007  
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Input Set : A:\10815-105005 Sequence.txt  
Output Set: N:\CRF4\01192007\I963827D.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 54,56  
Seq#:15; N Pos. 54  
Seq#:25; N Pos. 46  
Seq#:106; N Pos. 12,13  
Seq#:120; N Pos. 1,11,21,38  
Seq#:125; N Pos. 3,11,35  
Seq#:134; N Pos. 9,19,24,29,36  
Seq#:140; N Pos. 18,36,40,43  
Seq#:220; N Pos. 37,38,39

**VERIFICATION SUMMARY**

DATE: 01/19/2007

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TIME: 16:30:18

Input Set : A:\10815-105005 Sequence.txt

Output Set: N:\CRF4\01192007\I963827D.raw

L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:1411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0  
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0  
L:1651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0  
L:1765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:0  
L:1843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:0  
L:2809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:0